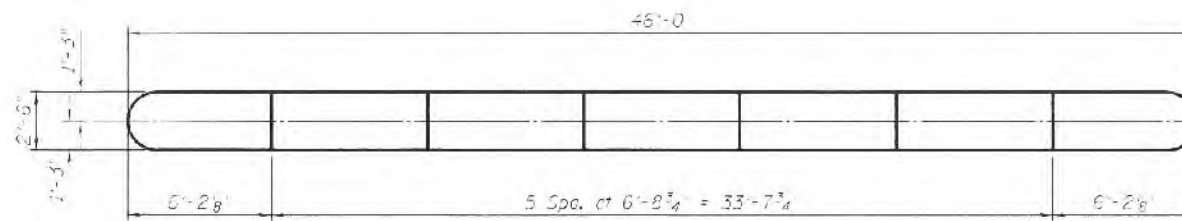


PILE DATA

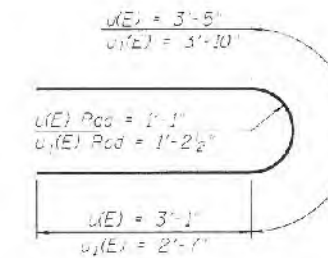
Type: Steel HP 14x73
 Minimum Required Bearing: 432k
 Factored Resistance Available: 726k
 Est. Length: 3 at 52', 4 at 76'
 No. Production Piles: 6
 No. Test Piles: 1

Piles shall be driven through 18" diameter precast
 holes extending to elevation - according to
 Article 512.00(a) of the Standard Specifications.
 Cost included in driving piles.



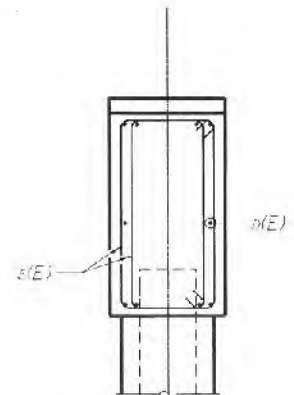
PLAN

BAR s(E)

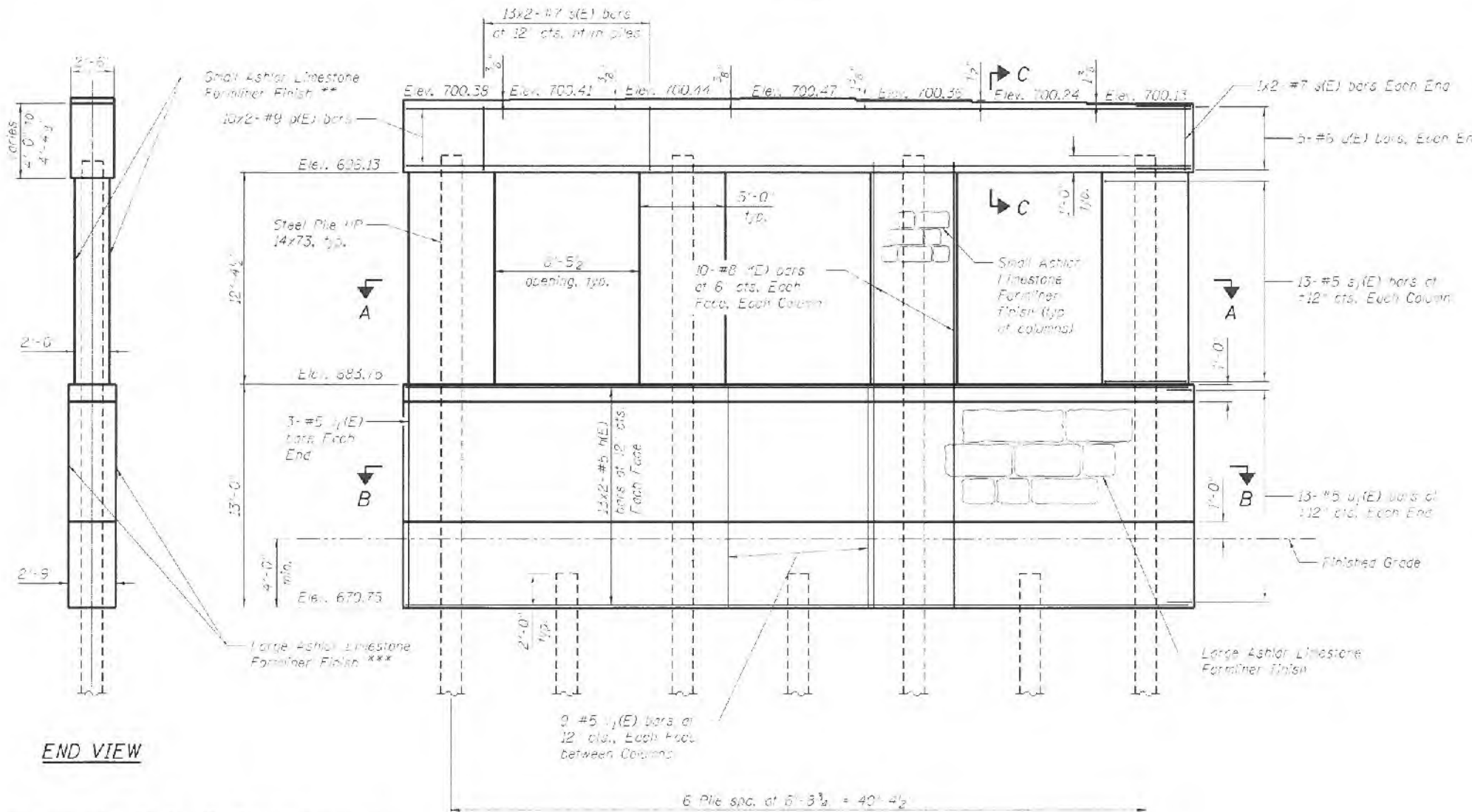


BARS u(E) & u1(E)

BAR s1(E)



SECTION C-C



PIER 2 ELEVATION

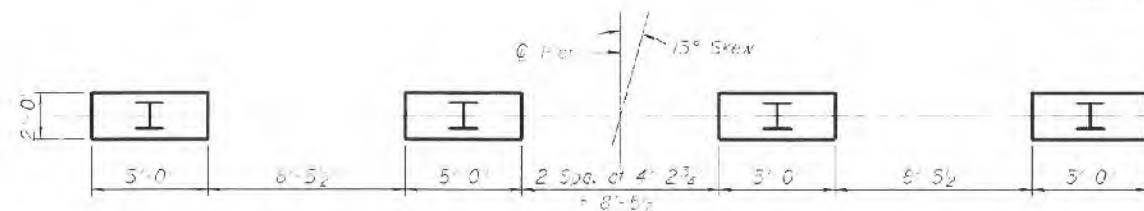
(looking North)

END VIEW

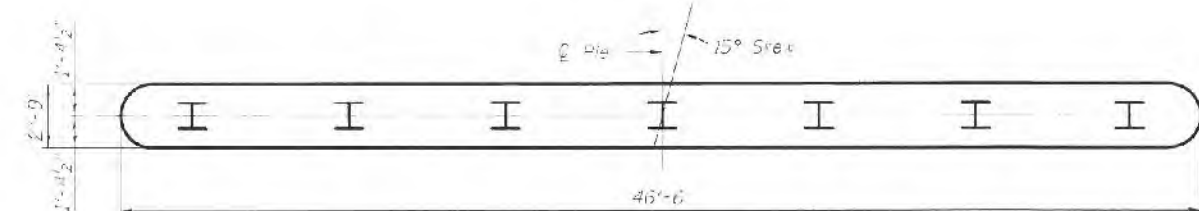
** Ashlar Limestone Small (4'-6" x 10'-18") pattern, 1/2" relief
 *** Ashlar Limestone Large (6'-8" x 18'-30") pattern, 1" relief

MIN. BAR LAP

#5 bar = 3'-3"
 #9 bar = 8'-7"



SECTION A-A



SECTION B-B

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
h(E)	52	#5	24'-8"	
p(E)	20	#9	27'-1"	
s(E)	82	#7	11'-11"	
u(E)	52	#5	13'-5"	
u1(E)	10	#6	9'-7"	
u1(E)	26	#5	9'-0"	
u(E)	80	#8	26'-2"	
u1(E)	60	#5	12'-3"	
Structural Excavation				Cu. Yd.
Concrete Structures				Cu. Yd.
Reinforcement Bars, Epoxy Coated				Feet
Furnishing Steel Piles HP14x73				Feet
Test Pile HP14x73				Feet
Driving Piles				Feet

COMPANY NAME: H3
 PROJECT CONTACT: H3
 DATE: 5/2/2014
 DRAWN: WJH
 CHECKED: RDG
 DESIGNED: JMN
 REVISIONS: 1



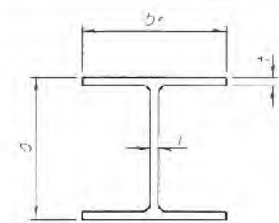
HRGreen.com
 1800 Professional Drive, Suite 100
 60462-1000

PIER NAME: Pier 2	DESIGNED: JMN	REVISIONS: 1
CHECKED: RDG	REVISIONS: 1	
DRAWN: WJH	REVISIONS: 1	
CHECKED: 6/13/14	REVISIONS: 1	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

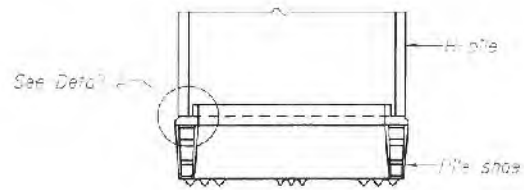
PIER 2 DETAILS
 STRUCTURE NO. 022-6404
 SHEET NO. SB-21 OF SB-26 SHEETS

F&D RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-COORR-00-B2	COPAGE	126	90
CONTRACT NO.				
ILLINOIS FED. AID PROJECT BRM-9003.699				

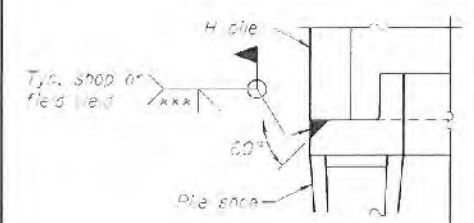


STEEL PILE TABLE

Designation	Depth d	Flange width b	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	3/8"	30"
x102	14"	14 3/4"	3/8"	30"
x89	13 1/8"	14 3/4"	3/8"	30"
x73	13 5/8"	14 3/4"	3/8"	30"
HP 12x84	12 1/4"	12 1/2"	5/16"	24"
x74	12 1/8"	12 1/2"	5/16"	24"
x63	12"	12 1/4"	5/16"	24"
x53	11 3/4"	12"	5/16"	24"
HP 10x57	10"	10 1/4"	3/8"	24"
x42	9 1/4"	10 1/8"	3/8"	24"
HP 8x36	8"	8 3/8"	7/16"	18"

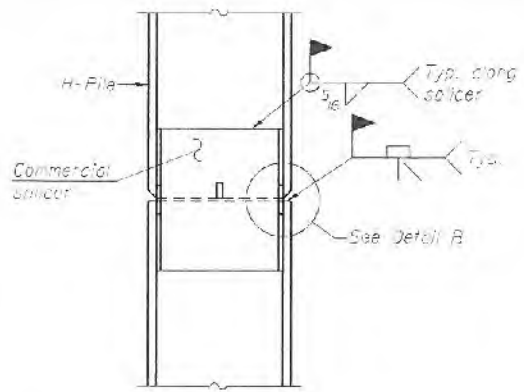


ELEVATION

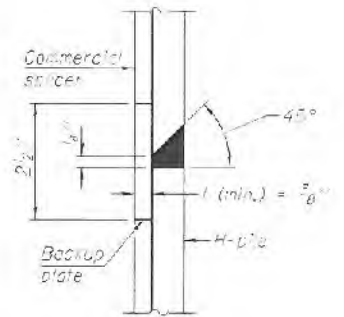


DETAIL A

H-PILE SHOE ATTACHMENT

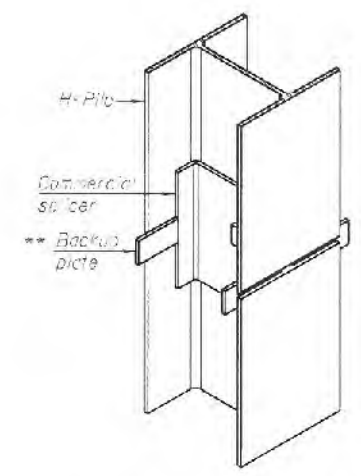


ELEVATION

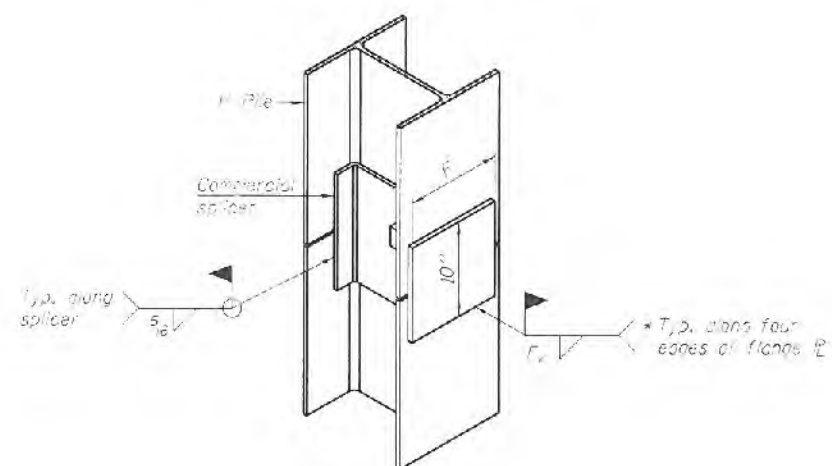


DETAIL "B"

WELDED COMMERCIAL SPLICE



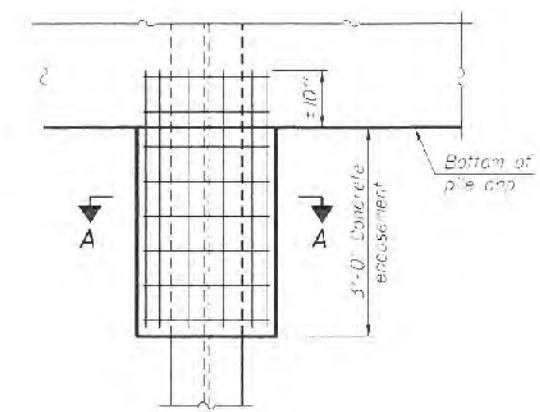
ISOMETRIC VIEW



ISOMETRIC VIEW

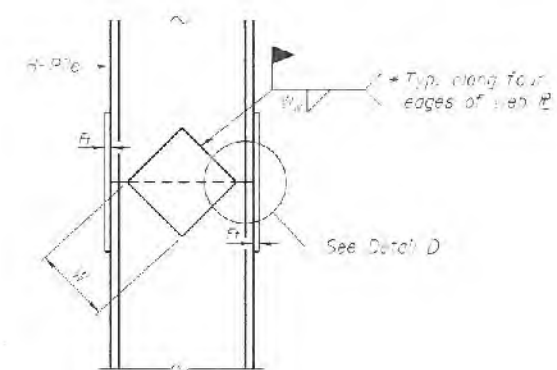
WELDED COMMERCIAL SPLICE ALTERNATE

- * Intermit weld 1/4" from end of pile and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

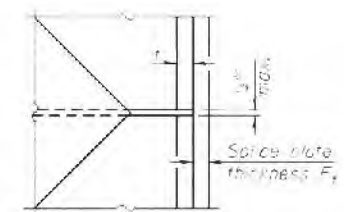


ELEVATION

PILE ENCASEMENT

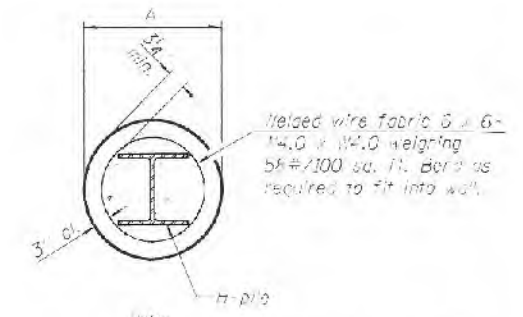


ELEVATION

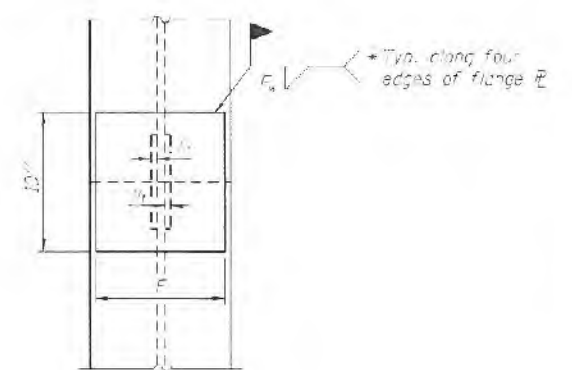


DETAIL D

WELDED PLATE FIELD SPLICE



SECTION A-A



END VIEW

Designation	F	F_s	F_w	W	W_s	W_w
HP 14x117	12 1/2"	1"	3/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/8"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/2"	7 3/4"	5/8"	1/2"
x73	12 1/2"	3/4"	1/2"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/2"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/2"	6 1/2"	5/8"	1/2"
x63	10"	3/4"	1/2"	6 1/2"	5/8"	1/2"
x53	10"	3/4"	1/2"	6 1/2"	5/8"	1/2"
HP 10x57	8"	3/4"	5/8"	5 1/4"	1/2"	3/8"
x42	8"	3/4"	5/8"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	3/8"	4 1/4"	1/2"	3/8"

Note:
The steel H-piles shall be according to
AASHTO M270 Grade 50.

HRGreen
1-27-12
F-HP

F-HP

1-27-12



HRGreen.com
Illinois Professional Design Firm
#134-081272

USER NAME: jw	DESIGNED: JWW	REVISED: -
CHECKED: RDG	CHECKED: RDG	REVISED: -
DRAWN: WJH	DRAWN: WJH	REVISED: -
DATE: 6/10/14	CHECKED: 6/10/14	REVISED: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 022-6404
SHEET NO. 52 OF 56 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10-30089-00-3R	DUPAGE	126	91
CONTRACT NO.			
ILLINOIS FED. AID PROJECT RRM-9001699			

Benchmarks:
Survey also located at the southeast corner
of Oak Street and Chicago Avenue
(NGS Marker K53, Elev. 676.86, NAD 83)

Existing Structure: None

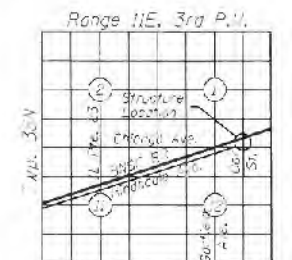
DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge
Design Specifications, 6th Edition

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)



LEGEND

- = Soil Boring Locations
- I.F. = Inside Face
- O.F. = Outside Face
- ▨ = Decorative Concrete
Parapet on Approach
Slab behind wall
See Bridge drawings
Approach Slab
(Plan View)

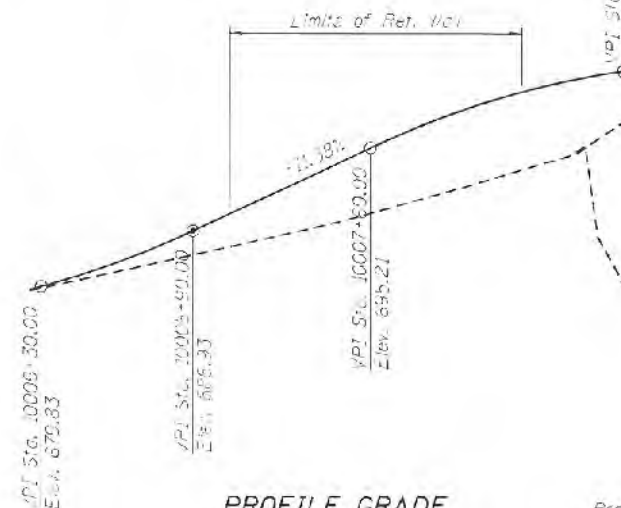
NOTE:

Wall offsets are to I.F. of wall

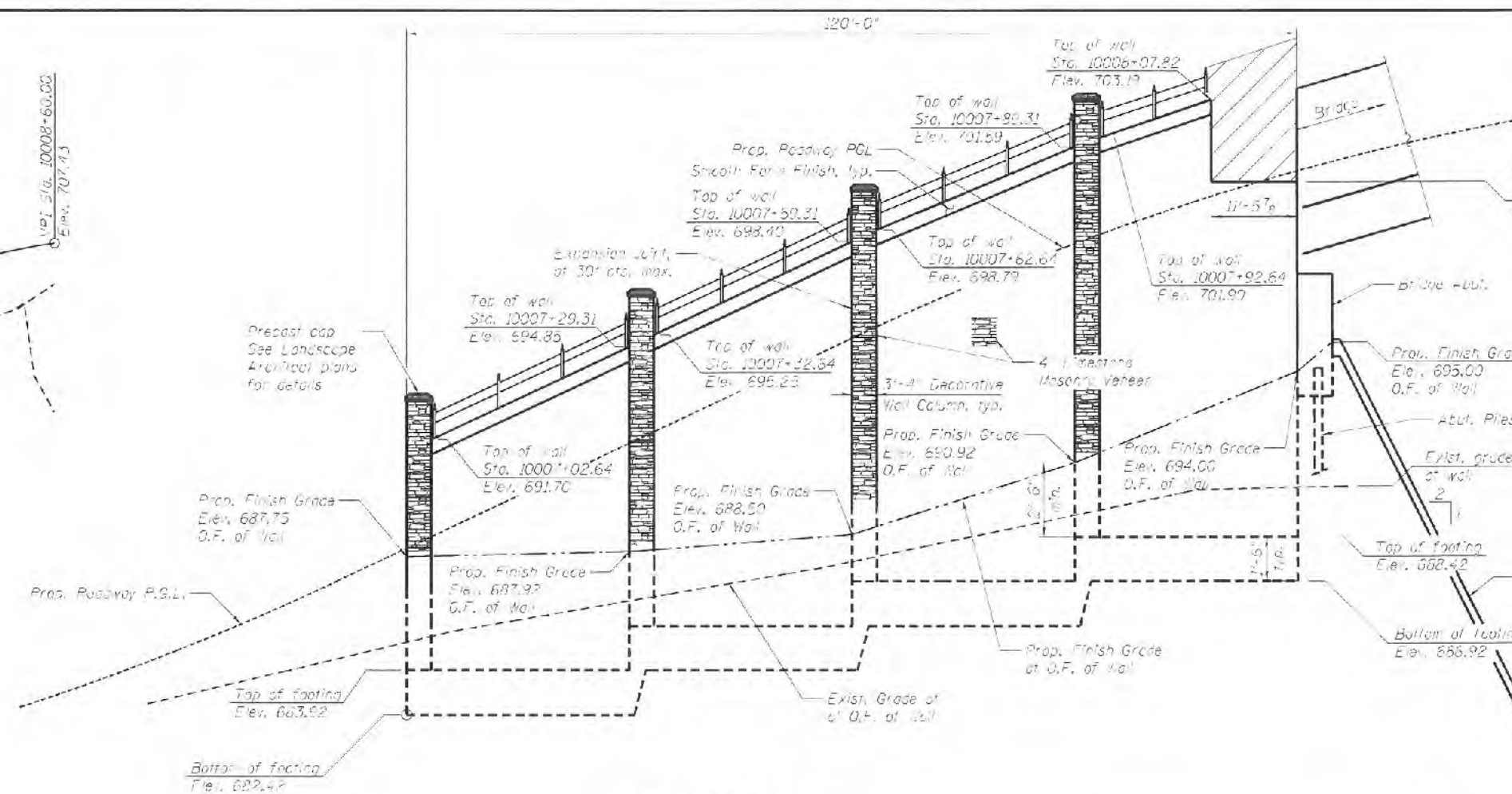
To the best of my knowledge, information
and belief, this retaining wall design is
structurally adequate for the design loading
shown on the plans. The design is an
economical one for the style of structure and
complies with requirements of the current
AASHTO Standard Specifications for Highway
Bridges.

Structural Engineer
HRGreen, Inc.

GENERAL PLAN AND ELEVATION
RETAINING WALL
OAK STREET (FAU RTE. 2999)
SECTION NO. 10-00089-00-BR
DUPAGE COUNTY
STATION 10006+55.83 TO 10008+26.68
STRUCTURE NO.



PROFILE GRADE



GENERAL NOTES:

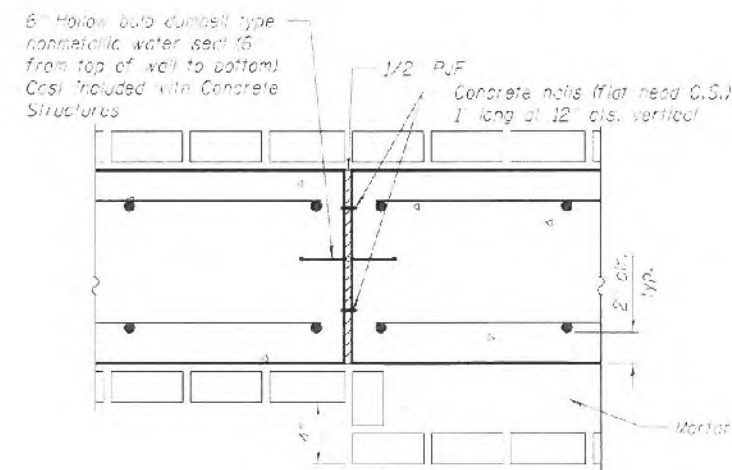
1. Reinforcement bars designated (E) shall be epoxy coated.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	106
POROUS GRANULAR BACKFILL	CU YD	128
STRUCTURE EXCAVATION	CU YD	185
CONCRETE STRUCTURES	CU YD	115
REINFORCEMENT BARS, EPOXY COATED	POUND	13,410
GEOCOMPOSITE WALL DRAIN	SQ YD	120
LIMESTONE MASONRY VENEER	SQ FT	1,282
PARAPET RAILING, SPECIAL	FOOT	98
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	120

INDEX OF SHEETS

SW-01	General Plan and Elevation
SW-02	General Notes and Bill of Material
SW-03	Wall Elevation and Footing Plan
SW-04	Retaining Wall Sections and Details
SW-05	Soil Boring Logs



EXPANSION JOINT

Cast included with Concrete Structures

CLIENT: WATER
PROJECT: CONTRACT
DATE: 6/20/2014 12:26:02 PM
FILE NAME: 011514001322.dgn
DESIGNED BY: JMW
DRAWN BY: WJH
CHECKED BY: RGD
PLOT DATE: 6/18/2014



HRGreen.com
State Professional Design Firm
184-001322

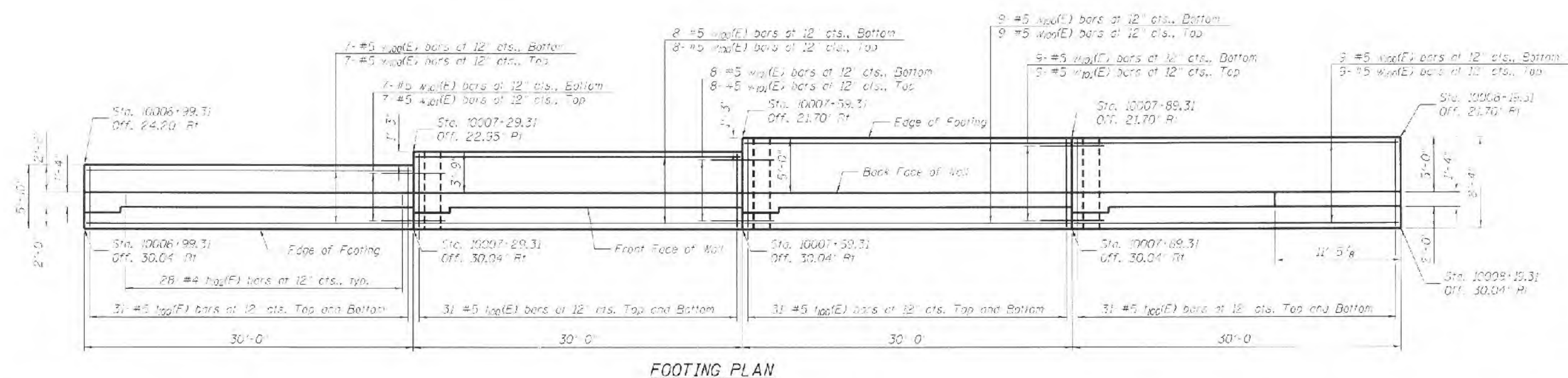
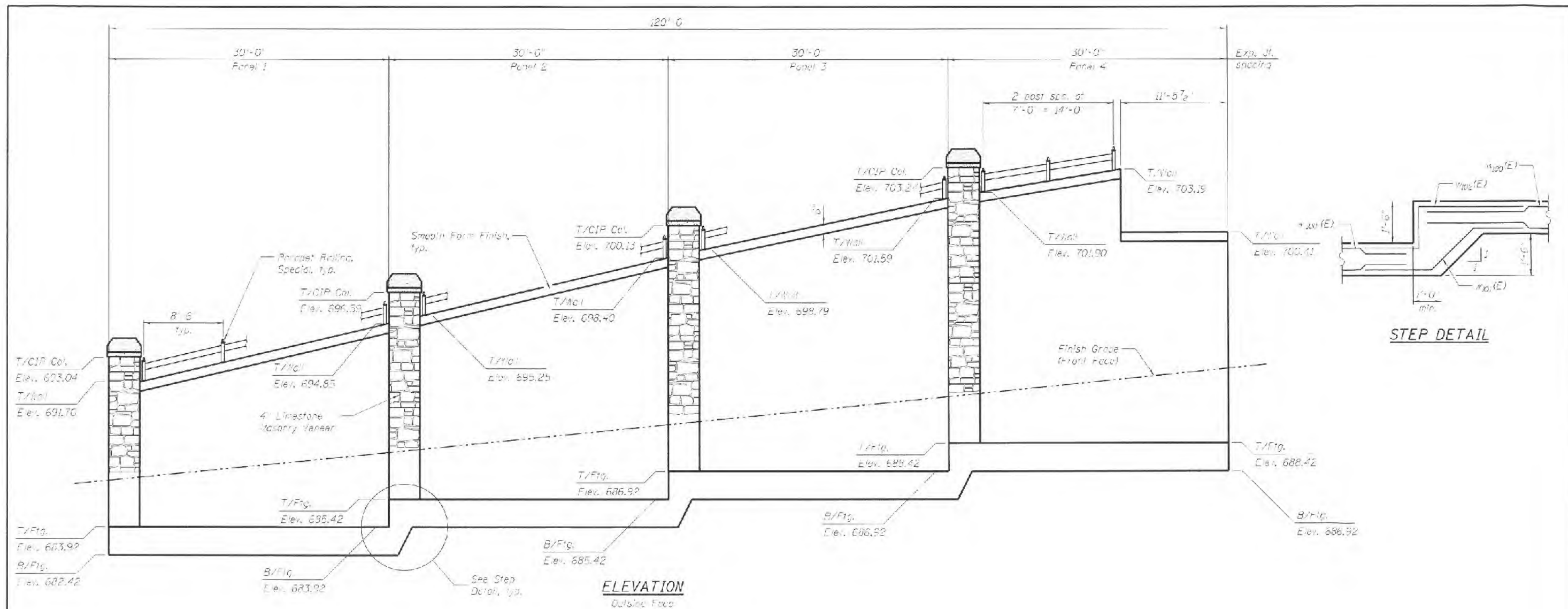
USER NAME: jphood	DESIGNED: JMW	REVISED:
	CHECKED: RGD	REVISED:
PLOT SCALE: 1"	DRAWN: WJH	REVISED:
PLOT DATE: 6/18/2014	CHECKED: 6/10/14	REVISED:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND TOTAL BILL OF MATERIAL
STRUCTURE NO. XXXX

SHEET NO. SW-02 OF SW-05 SHEETS

S.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
299B	10+00089+00-BR	DUPAGE	126	97
CONTRACT NO.				
ILLINOIS FED. AID PROJECT: BHM-5003(699)				



COMPANY NAME: BROWN, J. L.
PROJECT CONTACT: J. L. BROWN
CLIENT: BROWN, J. L.
DATE PLOTTED: 11/11/2011
FILE NAME: J. L. BROWN
PLOT ORIGIN: 11/11/2011
PLOT TITLE: J. L. BROWN



HRGreer

HRGreen.com
Hindia Professional Design Firm
P.O. Box 910071, ZC

USER NAME = whod
PLUT SCALE =
PLUT DATE = 6/10/2

DESIGNED	JMW
CHECKED	RGD
DRAWN	WJH
CHECKED	G/10/

	REVISED
	REVISED
	REVISED
	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL ELEVATION AND FOOTING PLAN
STRUCTURE NO. XXXX

SHEET NO. SW-03 OF SW-05 SHEETS

F.A.U. REF.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2999	10-C0089-00-ER	DUPAGE	126	98
CONTRACT NO.				
ILLINOIS FED. AID PROJECT BRM-90C3(699)				

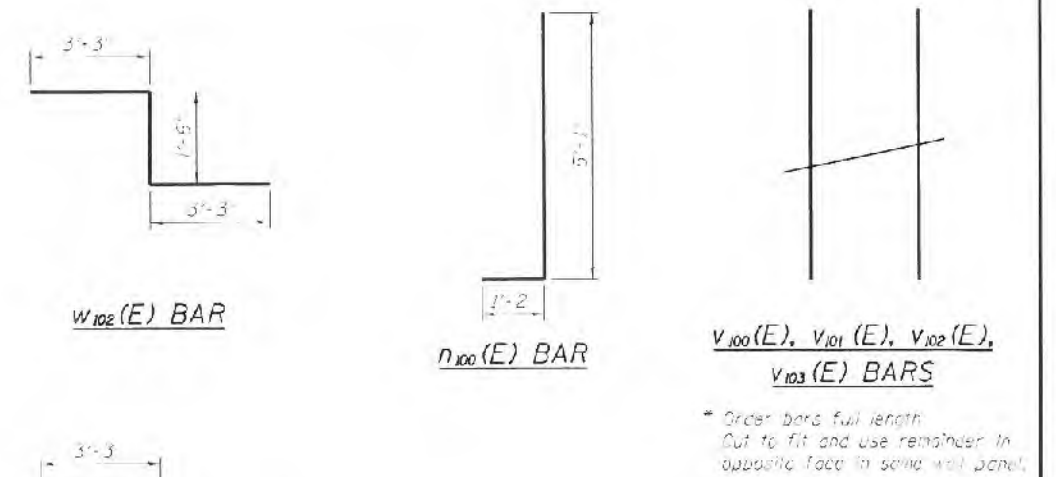
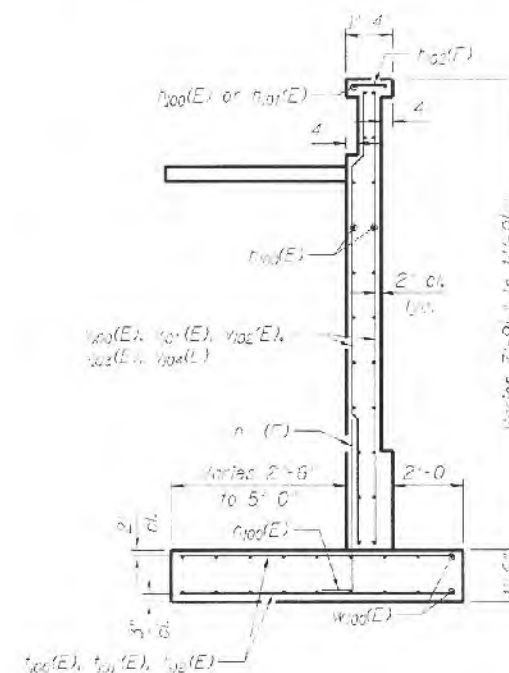
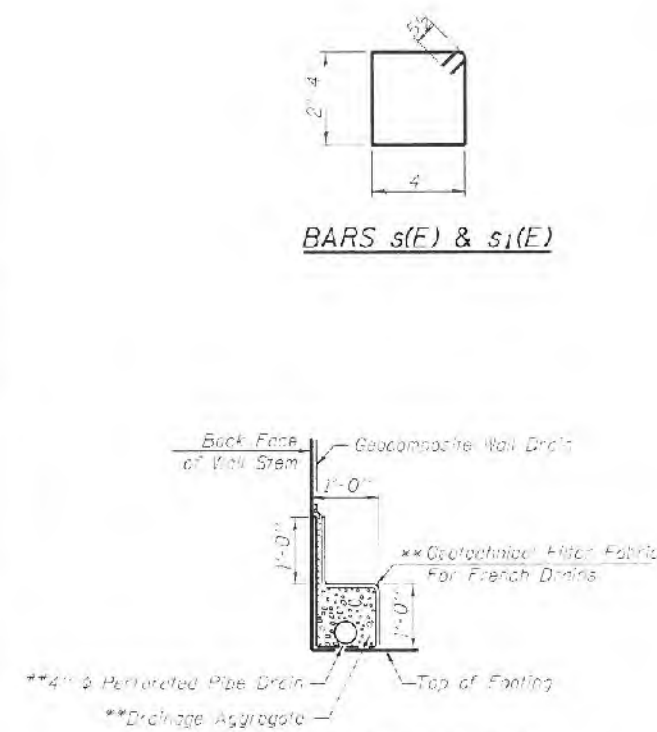


Diagram of a stepped profile with dimensions: 3'-3" horizontal, 2'-0" sloped at 135 degrees, and 3'-3" horizontal.

Bar	No.	Size	Length	Shape
bar (E)	110	#5	29'- 8"	—
bar (E)	6	#5	18'- 2"	—
bar (E)	142	#5	1'- 0"	—
bar (E)	124	#7	6'- 3"	J
bar (E)	8	#4	6'- 3"	□
bar (E)	62	#5	5'- 6"	—
bar (F)	62	#5	6'- 9"	—
bar (E)	124	#5	8'- 0"	—
bar (E)	28	#5	18'- 0"	—
bar (E)	28	#5	22'- 2"	—
bar (E)	28	#6	25'- 10"	—
bar (E)	16	#6	27'- 7"	—
bar (E)	24	#6	11'- 8"	—
bar (E)	8	#5	8'- 8"	—
bar (E)	8	#5	10'- 10"	—
bar (E)	8	#6	12'- 10"	—
bar (E)	8	#6	14'- 6"	—
bar (E)	66	#5	25'- 8"	—
bar (E)	24	#5	8'- 1"	~
bar (F)	24	#5	8'- 0"	~
Reinforcement Bars, Eoaky			Pound	13,410
Concrete Structures			Cu. Yd.	115
Pipe Underdrains for Structures &			Feet	120
Geocomposite Roll Drain			Sq. Yd.	120



SECTION A-A



** Included in the cost of "Pipe Underdrains for Structures"

AGENCY RESPONSIBLE FOR LETTING

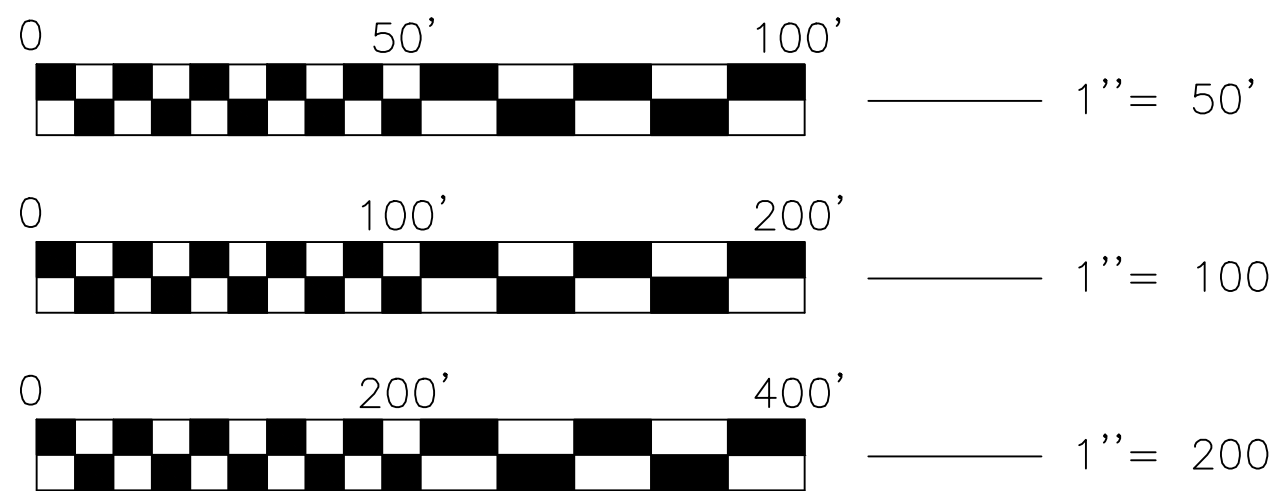
APPROVED _____ 20 _____
VILLAGE OF HINSDALE ENGINEER

PASSED _____ 20 _____
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW _____ 20 _____
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

INDEX TABLE			
OWNER	PARCEL	SHEET NUMBER	PROPERTY ACQUIRED BY
JOHN M. ROXAS	0001TE-A	2	
JOHN M. ROXAS	0001TE-B	2	
DARIUS S. BIKULCIUS AND ERIKA A. BIKULCIUS, AS TENANTS IN COMMON	0002TE	2	
VILLAGE OF HINSDALE	0003TE	2	
ADVENTIST HINSDALE HOSPITAL F/K/A/ HINSDALE HOSPITAL	0004	2	
BNSF RAILWAY COMPANY	0005TE	4	
ADVENTIST HINSDALE HOSPITAL F/K/A/ HINSDALE HOSPITAL	0006TE-A	3	
ADVENTIST HINSDALE HOSPITAL F/K/A/ HINSDALE HOSPITAL	0006TE-B	3	
ADVENTIST HINSDALE HOSPITAL F/K/A/ HINSDALE HOSPITAL	0007	4	
ADVENTIST HINSDALE HOSPITAL F/K/A/ HINSDALE HOSPITAL	0007TE-A	4	
ADVENTIST HINSDALE HOSPITAL F/K/A/ HINSDALE HOSPITAL	0007TE-B	4	
ADVENTIST HINSDALE HOSPITAL F/K/A/ HINSDALE HOSPITAL	0007TE-C	4	

J.U.L.I.E.
JOINT UTILITY LOCATING INFORMATION FOR EXCAVATION
1-800-892-0123



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

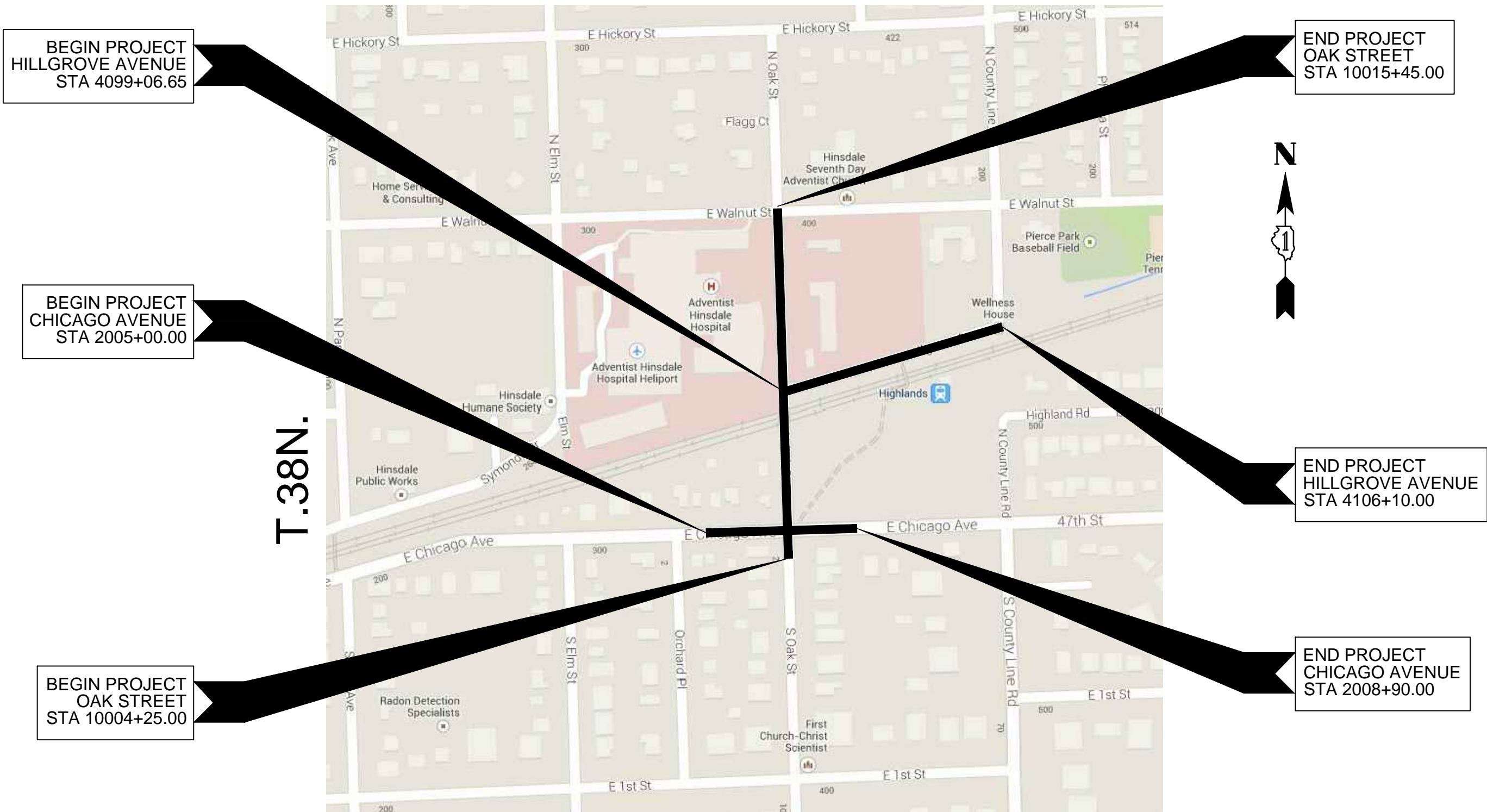
PLAT OF HIGHWAYS

ROUTE: F.A.U. 2999 (OAK STREET)
SECTION: 10-00089-00-BR
PROJECT: BRM-9003(699)
JOB NO: R-91-025-10
COUNTY: DUPAGE

PROJECT LOCATED IN
THE VILLAGE OF HINSDALE

LOCATION MAP

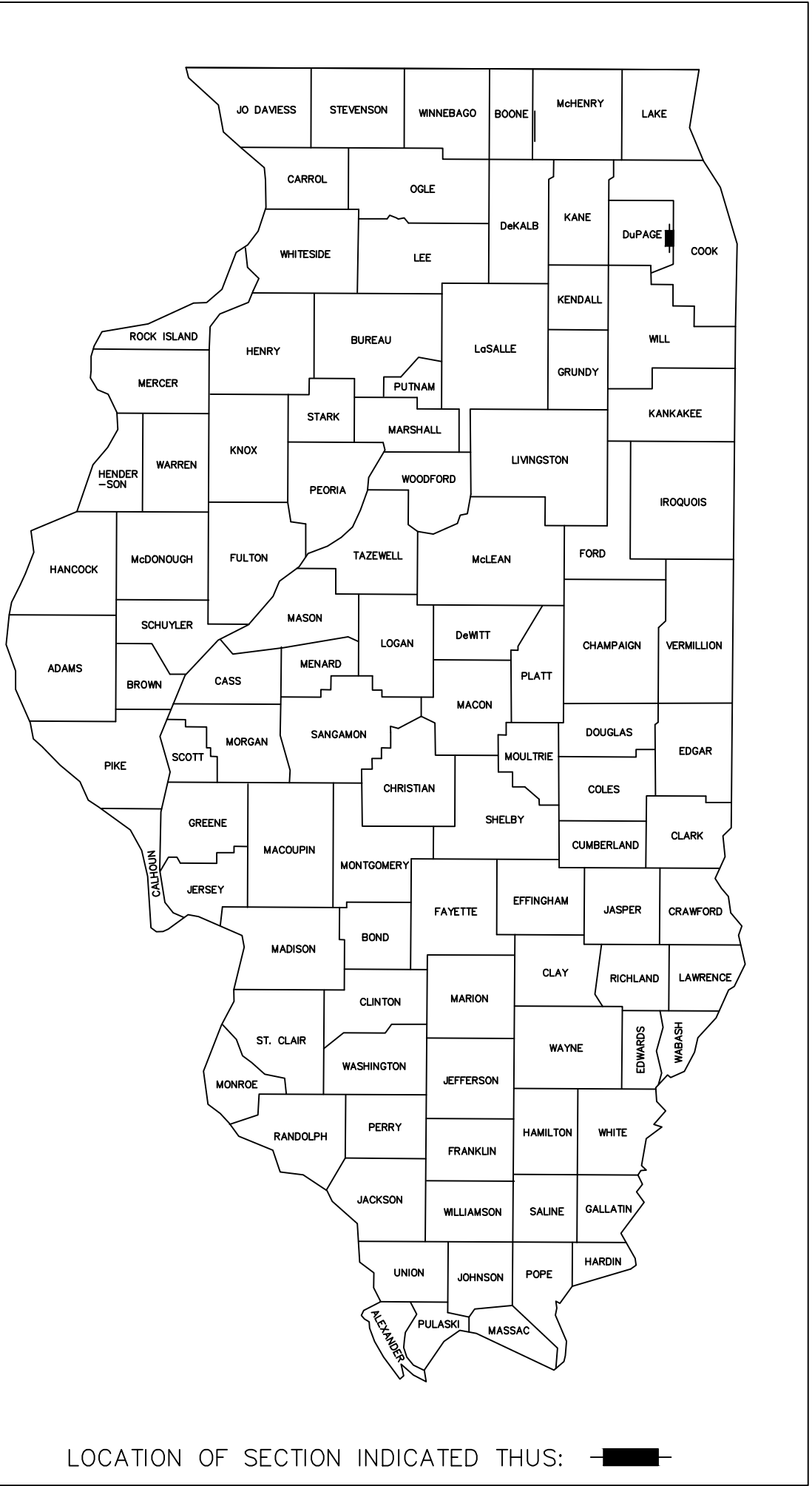
R.11E.



PROJECT LENGTH

NET LENGTH OAK STREET = 1,120 FT (0.212 MI)
NET LENGTH HILLGROVE AVENUE = 610 FT (0.116 MI)
NET LENGTH CHICAGO AVENUE = 390 FT (0.074 MI)
GROSS LENGTH OF PROJECT = 2,120 FT (0.402 MI)

MILAN DOBROSAVLJEVIC, P.L.S. NO. 3615
EXPIRES: 11/30/14
HR GREEN, INC.



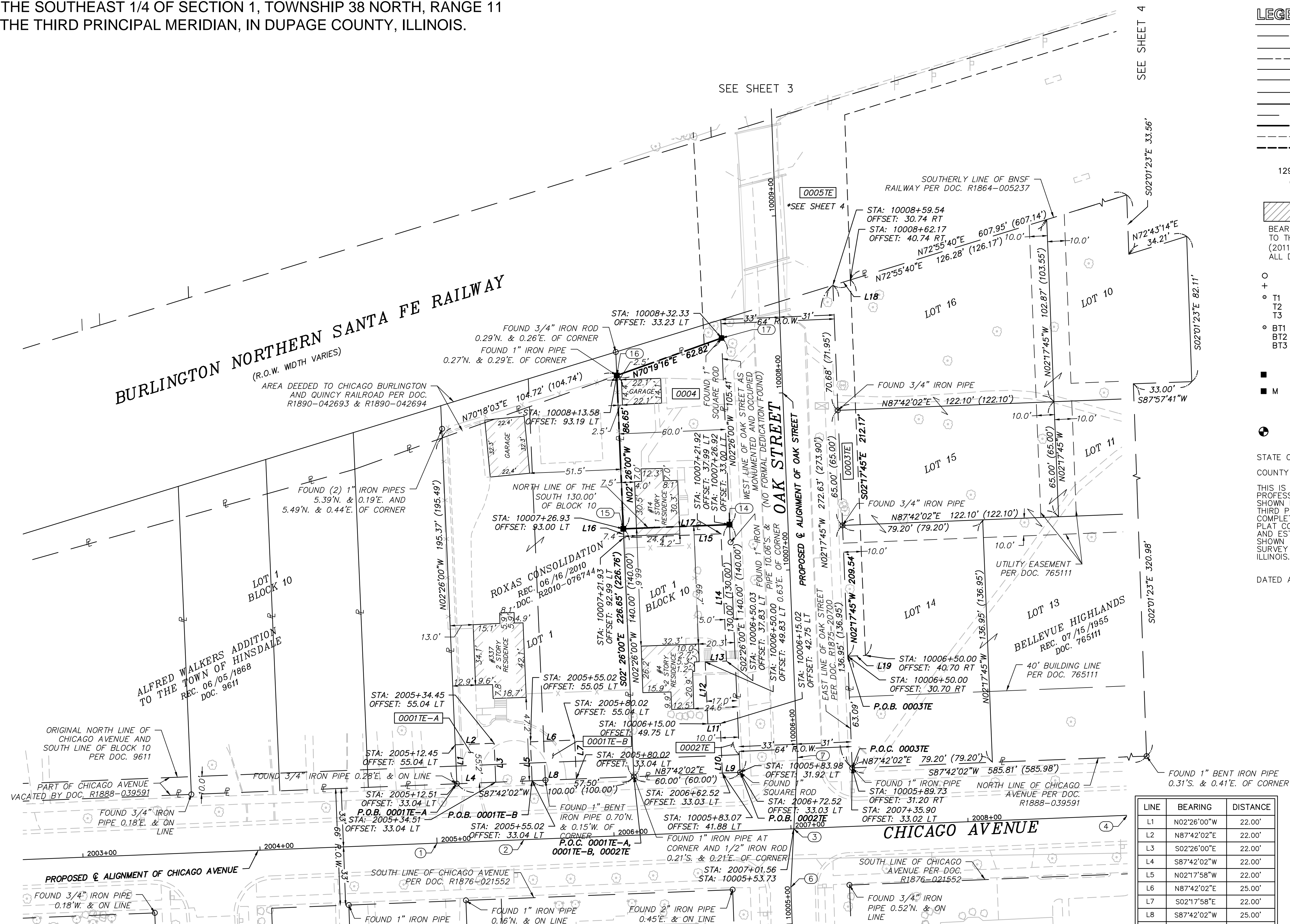
LOCATION OF SECTION INDICATED THUS: [Symbol]

NOTE: SHEET 1 IS A COVER SHEET AND IS NOT RECORDED

Illinois Professional Design Firm # 184-001322
323 Alana Drive
New Lenox, Illinois 60451
t. 815.462.9324 f. 815.462.9328
www.hrgreen.com

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.U. ROUTE 2999 (OAK STREET)
SECTION: 10-00089-00-BR COUNTY: DUPAGE
PROJECT: BRM-9003(699) JOB NO.: R-91-025-10
STATION: N/A
SCALE: N/A SHEET: 1 OF 5
BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

PART OF THE SOUTHEAST 1/4 OF SECTION 1, TOWNSHIP 38 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN DUPAGE COUNTY, ILLINOIS.



LINE	BEARING	DISTANCE
L1	N02°26'00"W	22.00'
L2	N87°42'02"E	22.00'
L3	S02°26'00"E	22.00'
L4	S87°42'02"W	22.00'
L5	N02°17'58"W	22.00'
L6	N87°42'02"E	25.00'
L7	S02°17'58"E	22.00'
L8	S87°42'02"W	25.00'
L9	S87°42'02"W	10.00'
L10	N02°26'00"W	28.10'
L11	S87°34'00"W	7.00'
L12	N02°26'00"W	35.00'
L13	N87°34'00"E	12.00'
L14	N02°26'00"W	71.89'
L15	S87°42'02"W	55.00'
L16	N02°26'00"W	5.00'
L17	N87°42'02"E	60.00'
L18	N72°55'40"E	10.34'
L19	S87°41'36"W	10.00'

PARCEL NUMBER	OWNER	P.I.N.	TOTAL HOLDINGS (ACRES)	AREA TAKEN		PREV. DED'D OR USED AREA (ACRES)	REMAINING AREA (ACRES)	EASEMENT AREA		EASEMENT PURPOSE	ACQUIRED BY:	TITLE COMMITMENT NUMBER
				ACRES	SQUARE FEET			ACRES	SQUARE FEET			
0001TE-A 0001TE-B	JOHN M. ROXAS	09-01-420-017	0.484 ±				0.484 ±	0.011 ± 0.013 ±		TEMPORARY CONSTRUCTION		SEC-2014DP-3189.0
0002TE	DARIUS S. BIKULCIUS AND ERIKA A. BIKULCIUS, AS TENANTS IN COMMON	09-01-420-012	0.193 ±				0.193 ±	0.035 ±		TEMPORARY CONSTRUCTION		SEC-2014DP-3190.0
0003TE	VILLAGE OF HINSDALE	09-01-421-001	4.774 ±				4.774 ±	0.048 ±		TEMPORARY CONSTRUCTION		SEC-2014DP-3191.0
0004	ADVENTIST HINSDALE HOSPITAL F/K/A HINSDALE HOSPITAL	09-01-420-011	0.132 ±	0.132 ±			0.000 ±					SEC-2014DP-3192.0

LEGEND

	SECTION LINE		SECTION CORNER
	QUARTER SECTION LINE		
	QUARTER, QUARTER SECTION LINE		
	PLATTED LOT LINE		
	PROPERTY (DEED) LINE		
	APPARENT PROPERTY LINE		
	PROPOSED CENTERLINE ALIGNMENT		
	EXISTING RIGHT OF WAY LINE		
	PROPOSED RIGHT OF WAY LINE		
	EXISTING EASEMENT		QUARTER SECTION CORNER
	PROPOSED EASEMENT		
	MEASURED DIMENSION		
	COMPUTED DIMENSION		
	RECORDED DIMENSION		
	MEASUREMENT CONTINUED TO NEXT PAGE		
	EXISTING BUILDING		

BEARINGS, DISTANCES & COORDINATES SHOWN HEREON ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83 (2011). COMBINED SCALE FACTOR = 0.999942525 (GROUND TO GRID) ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

○	IRON PIPE OR ROD FOUND	○	REPLACED AFTER CONSTRUCTION
+	CUT CROSS FOUND OR SET	●	SET 5/8" IRON ROD
○ T1	THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH		
T2	IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY		
T3	COLORLED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.		
○ BT1	THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONU-		
BT2	MENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE		
BT3	FOUND IRON STAKE. IDENTIFIED BY COLORLED PLASTIC CAP BEARING SUR-		
	VEYORS REGISTRATION NUMBER.		
■	STAKING OF PROPOSED RIGHT OF WAY. SET 5/8 INCH REBAR.		
■ M	STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS, BURIED 5/8		
	INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY		
	MARKER POSITION. IDENTIFIED BY COLORLED PLASTIC CAP BEARING		
	SURVEYORS REGISTRATION NUMBER.		
⊕	PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)		

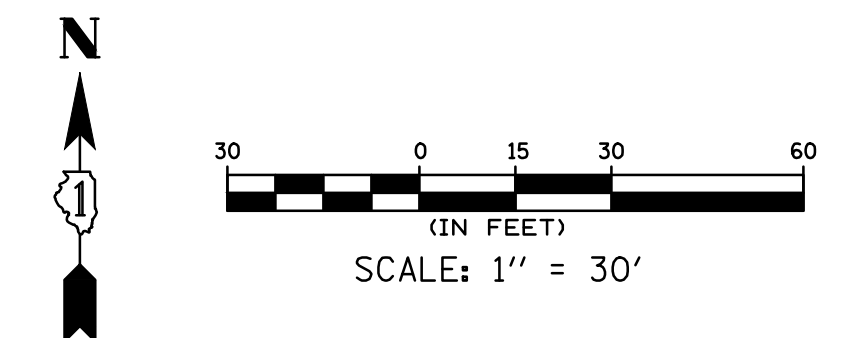
STATE OF ILLINOIS } S.S.
COUNTY OF WILL

THIS IS TO CERTIFY THAT I, MILAN DOBROSavlJEVIC, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HERE-ON IN SECTION 1, TOWNSHIP 38 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, DUPAGE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE VILLAGE OF HINSDALE, STATE OF ILLINOIS.

DATED AT NEW LENOX, ILLINOIS THIS 11TH DAY OF JUNE, 2014 A.D.

MILAN DOBROSavlJEVIC
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3615
LICENSE EXPIRATION DATE: 11/30/14

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT
ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY



NOTE: SHEET 1 IS A COVER SHEET AND IS NOT RECORDED

Illinois Professional Design Firm # 184-001322



323 Alana Drive
New Lenox, Illinois 60451
t. 815.462.9324 f. 815.462.9328
www.hrgreen.com

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. ROUTE 2999 (OAK STREET)
SECTION: 10-00089-00-BR COUNTY: DUPAGE
PROJECT: BRM-9003 (699) JOB NO.: R-91-025-10
STATION: 2005+00 TO 2008+90 & 10005+00 TO 10009+00
SCALE: 1"=30' SHEET: 2 OF 5

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

REVISION: DATE: MADE BY:

RECORDING: RECORDED ON: _____ AS DOCUMENT NO.: _____

ROUTE: F.A.U. ROUTE 2999 (OAK STREET)

SECTION: 10-00089-00-BR

DUPAGE COUNTY

JOB NO.: R-91-025-10